

## (1) GENERAL INFORMATION:

- (i) APPLICANT: Gately, Maurice K.  
Presky, David H.
- (ii) TITLE OF INVENTION: ANTIBODIES AGAINST HUMAN IL-12
- (iii) NUMBER OF SEQUENCES: 4
- (iv) CORRESPONDENCE ADDRESS:
  - (A) ADDRESSEE: Hoffmann-La Roche Inc.
  - (B) STREET: 340 Kingsland Street
  - (C) CITY: Nutley
  - (D) STATE: New Jersey
  - (E) COUNTRY: United States
  - (F) ZIP: 07110-1199
- (v) COMPUTER READABLE FORM:
  - (A) MEDIUM TYPE: Floppy disk
  - (B) COMPUTER: IBM PC compatible
  - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
  - (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
- (vi) CURRENT APPLICATION DATA:
  - (A) APPLICATION NUMBER: US/09/652,282
  - (B) FILING DATE: 30-Aug-2000
  - (C) CLASSIFICATION: <Unknown>
- (vii) PRIOR APPLICATION DATA:
  - (A) APPLICATION NUMBER: 09/232,522
  - (B) FILING DATE: <Unknown>
- (viii) ATTORNEY/AGENT INFORMATION:
  - (A) NAME: Buchholz, Briana C.
  - (B) REGISTRATION NUMBER: 39,123
  - (C) REFERENCE/DOCKET NUMBER: CD 1048P
- (ix) TELECOMMUNICATION INFORMATION:
  - (A) TELEPHONE: 973-235-6208
  - (B) TELEFAX: 973-235-2363

## (2) INFORMATION FOR SEQ ID NO: 1:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 321 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (v) ORIGINAL SOURCE:
  - (A) ORGANISM: mouse
  - (G) CELL TYPE: Hybridoma
  - (H) CELL LINE: HIL-12F3-16G2
- (ix) FEATURE:
  - (A) NAME/KEY: CDS
  - (B) LOCATION: 1..321
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
 

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| CTG | GAG | GAG | TCA | GGA | CCT | AGC | CTC | GTG | AAA | CCT | TCT | CAG | ACT | CTG | TCC | 48  |
| Leu | Glu | Glu | Ser | Gly | Pro | Ser | Leu | Val | Lys | Pro | Ser | Gln | Thr | Leu | Ser |     |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     | 15  |     |     |     |
| CTC | ACC | TGT | TCT | GTC | ACT | GGC | GAC | TCC | ATC | ACC | AGT | GGT | TAC | TGG | AAC | 96  |
| Leu | Thr | Cys | Ser | Val | Thr | Gly | Asp | Ser | Ile | Thr | Ser | Gly | Tyr | Trp | Asn |     |
|     |     |     | 20  |     |     |     | 25  |     |     |     |     | 30  |     |     |     |     |
| TGG | ATC | CGG | AAA | TTC | CCA | GGG | AAT | AAA | TTT | GAG | TAC | ATG | GGA | TTC | ATA | 144 |
| Trp | Ile | Arg | Lys | Phe | Pro | Gly | Asn | Lys | Phe | Glu | Tyr | Met | Gly | Phe | Ile |     |
|     |     | 35  |     |     |     | 40  |     |     |     |     |     | 45  |     |     |     |     |
| AGT | TAT | AGT | GGT | AGC | ACT | TAC | AAT | AAT | CCA | TCT | CTC | AAA | AAT | CGA | GTC | 192 |
| Ser | Tyr | Ser | Gly | Ser | Thr | Tyr | Asn | Asn | Pro | Ser | Leu | Lys | Asn | Arg | Val |     |
|     |     | 50  |     |     |     | 55  |     |     |     | 60  |     |     |     |     |     |     |
| TCC | ATC | ACT | CGA | GAC | ACA | TCC | AAT | AAC | CAG | TAC | TAC | CTG | CAG | TTG | AGT | 240 |
| Ser | Ile | Thr | Arg | Asp | Thr | Ser | Asn | Asn | Gln | Tyr | Tyr | Leu | Gln | Leu | Ser |     |
| 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| TCT | GTG | ACT | ACT | GAG | GAC | TCA | GCC | ACA | TAT | TAC | TGT | GCA | AGA | TCT | TCG | 288 |
| Ser | Val | Thr | Thr | Glu | Asp | Ser | Ala | Thr | Tyr | Tyr | Cys | Ala | Arg | Ser | Ser |     |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |     |
| GAT | GCT | TTG | GAC | TAC | TGG | GGC | GCA | GGG | ACC | ACG |     |     |     |     |     | 321 |
| Asp | Ala | Leu | Asp | Tyr | Trp | Gly | Ala | Gly | Thr | Thr |     |     |     |     |     |     |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     |     |     |     |     |

## (2) INFORMATION FOR SEQ ID NO: 2:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 107 amino acids

(B) TYPE: amino acid

(D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: protein

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Leu | Glu | Glu | Ser | Gly | Pro | Ser | Leu | Val | Lys | Pro | Ser | Gln | Thr | Leu | Ser |  |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |  |
| Leu | Thr | Cys | Ser | Val | Thr | Gly | Asp | Ser | Ile | Thr | Ser | Gly | Tyr | Trp | Asn |  |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |  |
| Trp | Ile | Arg | Lys | Phe | Pro | Gly | Asn | Lys | Phe | Glu | Tyr | Met | Gly | Phe | Ile |  |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |  |
| Ser | Tyr | Ser | Gly | Ser | Thr | Tyr | Asn | Asn | Pro | Ser | Leu | Lys | Asn | Arg | Val |  |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |  |
| Ser | Ile | Thr | Arg | Asp | Thr | Ser | Asn | Asn | Gln | Tyr | Tyr | Leu | Gln | Leu | Ser |  |
|     | 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |  |
| Ser | Val | Thr | Thr | Glu | Asp | Ser | Ala | Thr | Tyr | Tyr | Cys | Ala | Arg | Ser | Ser |  |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |  |
| Asp | Ala | Leu | Asp | Tyr | Trp | Gly | Ala | Gly | Thr | Thr |     |     |     |     |     |  |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     |     |     |     |  |

## (2) INFORMATION FOR SEQ ID NO: 3:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 308 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (iii) HYPOTHETICAL: NO

## (iv) ANTI-SENSE: NO

## (vi) ORIGINAL SOURCE:

(A) ORGANISM: mouse

(G) CELL TYPE: Hybridoma

(H) CELL LINE: HIL-12F3-20E11

## (ix) FEATURE:

(A) NAME/KEY: CDS

(B) LOCATION: 1..306

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| GAG | GAG | TCA | GGA | CCT | AGC | CTC | GTG | AAA | CCT | TCT | CAG | ACT | CTG | TCC | CTC | 48  |
| Glu | Glu | Ser | Gly | Pro | Ser | Leu | Val | Lys | Pro | Ser | Gln | Thr | Leu | Ser | Leu |     |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |     |
| ACC | TGT | TCT | GTC | ACT | GGC | GAC | TCC | ATC | ACC | AGT | GGT | TAC | TGG | AAC | TGG | 96  |
| Thr | Cys | Ser | Val | Thr | Gly | Asp | Ser | Ile | Thr | Ser | Gly | Tyr | Trp | Asn | Trp |     |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |     |
| ATC | CGG | AAA | TTC | CCA | GAT | AAT | ACA | CTT | GAG | TAC | ATG | GGA | TAC | ATA | AGT | 144 |
| Ile | Arg | Lys | Phe | Pro | Asp | Asn | Thr | Leu | Glu | Tyr | Met | Gly | Tyr | Ile | Ser |     |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |     |
| TAC | AGT | GGT | AGT | ACT | TAC | TAC | AAT | CCA | TCT | CTC | AGA | AGT | CGA | ATC | TCC | 192 |
| Tyr | Ser | Gly | Ser | Thr | Tyr | Tyr | Asn | Pro | Ser | Leu | Arg | Ser | Arg | Ile | Ser |     |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |     |
| ATC | ACT | CGA | GAC | ACA | TCC | AAG | AAC | CAG | TAC | TCC | ATG | CAG | TTG | AAT | TCT | 240 |
| Ile | Thr | Arg | Asp | Thr | Ser | Lys | Asn | Gln | Tyr | Ser | Met | Gln | Leu | Asn | Ser |     |
|     | 65  |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |     |
| GTG | ACT | ACT | GAG | GAC | ACA | GCC | ACA | TAT | TAC | TGT | GCA | AGA | TCC | TCG | GAT | 288 |
| Val | Thr | Thr | Glu | Asp | Thr | Ala | Thr | Tyr | Tyr | Cys | Ala | Arg | Ser | Ser | Asp |     |

85  
GCT ATG GAC TAC TGG GGC GC  
Ala Met Asp Tyr Trp Gly  
100

(2) INFORMATION FOR SEQ ID NO: 4:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 102 amino acids

(B) TYPE: amino acid

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Glu | Ser | Gly | Pro | Ser | Leu | Val | Lys | Pro | Ser | Gln | Thr | Leu | Ser | Leu |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     | 15  |     |     |
| Thr | Cys | Ser | Val | Thr | Gly | Asp | Ser | Ile | Thr | Ser | Gly | Tyr | Trp | Asn | Trp |
|     |     |     | 20  |     |     |     | 25  |     |     |     |     |     | 30  |     |     |
| Ile | Arg | Lys | Phe | Pro | Asp | Asn | Thr | Leu | Glu | Tyr | Met | Gly | Tyr | Ile | Ser |
|     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |     |
| Tyr | Ser | Gly | Ser | Thr | Tyr | Tyr | Asn | Pro | Ser | Leu | Arg | Ser | Arg | Ile | Ser |
|     | 50  |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |     |
| Ile | Thr | Arg | Asp | Thr | Ser | Lys | Asn | Gln | Tyr | Ser | Met | Gln | Leu | Asn | Ser |
| 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |     |
| Val | Thr | Thr | Glu | Asp | Thr | Ala | Thr | Tyr | Tyr | Cys | Ala | Arg | Ser | Ser | Asp |
|     |     |     |     | 85  |     |     |     | 90  |     |     |     |     |     | 95  |     |
| Ala | Met | Asp | Tyr | Trp | Gly |     |     |     |     |     |     |     |     |     |     |
|     |     |     | 100 |     |     |     |     |     |     |     |     |     |     |     |     |